

These tables summarize a comparison of aerosol optical depths from MISR with those from the AERONET database. AERONET measurements were interpolated to MISR wavelengths and averaged over a window surrounding the MISR overpass time. Comparisons from two years of data were included in this study. The RMS error is the square root of the mean of squared differences between AERONET and MISR measurements. The mean difference is calculated as the mean of the set of AERONET values minus MISR values. There were 84 measurements over water and 1648 measurements over land.

**Table 1: 2001-2002 Seasons, RMS Table**

	Water	Land
Blue	0.091	0.121
Green	0.062	0.106
Red	0.049	0.095
NIR	0.034	0.084

**Table 2: 2001-2002 Seasons, Mean Difference Table**

	Water	Land
Blue	-0.071	0.002
Green	-0.045	0.011
Red	-0.033	0.006
NIR	-0.018	0.010

**Table 3: 2001-2002 Seasons, RMS Binned Table, Water**

AERONET Optical Depth	.00 - .10	.10 - .25	.25 - .50	.50 - 1.0	1.0 - 2.0	2.0 - 10.
Blue	0.080	0.086	0.111	0.148	0.191	0.000
Green	0.053	0.064	0.078	0.083	0.159	0.000
Red	0.043	0.051	0.071	0.089	0.000	0.000
NIR	0.034	0.032	0.052	0.033	0.000	0.000

**Table 4: 2001-2002 Seasons, Mean Difference Binned Table, Water**

AERONET Optical Depth	.00 - .10	.10 - .25	.25 - .50	.50 - 1.0	1.0 - 2.0	2.0 - 10.
Blue	-0.069	-0.068	-0.101	-0.128	0.191	0.000
Green	-0.041	-0.050	-0.070	-0.062	0.159	0.000
Red	-0.028	-0.041	-0.062	0.089	0.000	0.000
NIR	-0.017	-0.026	-0.037	0.033	0.000	0.000

**Table 5: 2001-2002 Seasons, Count Per Bin, Water**

AERONET Optical Depth	.00 - .10	.10 - .25	.25 - .50	.50 - 1.0	1.0 - 2.0	2.0 - 10.
Blue	38	34	8	3	1	0
Green	46	28	7	2	1	0
Red	53	24	6	1	0	0
NIR	68	12	3	1	0	0

**Table 6: 2001-2002 Seasons, RMS Binned Table, Land**

AERONET Optical Depth	.00 - .10	.10 - .25	.25 - .50	.50 - 1.0	1.0 - 2.0	2.0 - 10.
Blue	0.078	0.074	0.112	0.190	0.528	0.000
Green	0.064	0.063	0.123	0.223	0.634	0.000
Red	0.056	0.064	0.130	0.246	0.766	0.000
NIR	0.047	0.073	0.137	0.271	0.835	0.000

**Table 7: 2001-2002 Seasons, Mean Difference Binned Table, Land**

AERONET Optical Depth	.00 - .10	.10 - .25	.25 - .50	.50 - 1.0	1.0 - 2.0	2.0 - 10.
Blue	-0.038	-0.013	0.011	0.093	0.413	0.000
Green	-0.022	0.005	0.035	0.146	0.492	0.000
Red	-0.018	0.010	0.031	0.167	0.558	0.000
NIR	-0.007	0.023	0.049	0.210	0.576	0.000

**Table 8: 2001-2002 Seasons, Count Per Bin, Land**

AERONET Optical Depth	.00 - .10	.10 - .25	.25 - .50	.50 - 1.0	1.0 - 2.0	2.0 - 10.
Blue	439	674	374	131	30	0
Green	618	645	286	87	12	0
Red	825	571	185	62	5	0
NIR	1080	414	122	28	4	0